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Properties of Lattice-limit of a Sequence on X-lattice

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Abstract: The concepts of lattice-valued distance and lattice-limit of elements of a lattice and X-lattice are introduced by Liu and Zhang [1], but the properties of above mentioned concepts are not discussed. In this paper, some elementary properties and some similar to those of limit of a sequence of real-numbers are obtained.

Keywords: Fuzzy number, fuzzy limit, fuzzy analysis, convergence, lattice.

Complete Extension of Non-additive Lattice Valued Measure on the Lattice

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Abstract: In this paper, we give a complete extension of non-additive lattice-valued measure, and prove the above-mentioned complete extension with inheritance. **Keywords:** Fuzzy measure, non-additive measure, lattice, complete extension.

Logic Foundations of Fuzzy Modus Ponens and Fuzzy Modus Tollens

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